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Document Calculations

BACON CHEESE BURGER

Total Number of Everything Patty, Lettuce, Bun, and Tomatoes
24.03% of 1201 = 289(1.4 number of patties eaten)= 404.6

BCB

1 Bun

1 patty

1 Tomatoe

1 Lettuce

2 Slices Chese

2 pickels

Bu + Pa + T + L + 2Pi + 2Ch + 3 Ba à BuPaTIPi2Ch2Ba3

Patty's

Patties: 289(1.4 number of patties eaten) = 404.6

Patties (Dozen):

$$\frac{404.6 \text{ number of patties}}{12}$$

33.8 or 34

Number of packages: $\frac{34 \text{ dozen}}{2 \text{ dozen}}$ because there is two dozen in a package. **17 packages**

Patties per package: two dozen

Patties Unusable:

$$\left(\frac{1.3}{48 \text{ patties}} \right) = \left(\frac{x}{404.6 \text{ patties}} \right) \quad \text{*This is saying that since 1.3 are bad out of 48, how many are bad out of 404.6}$$

$$48x = 525.98$$

x= 10.95 or 11 patties are unusable

So out of 404 patties 8 are bad. So I need $\frac{412 \text{ total patties}}{24 \text{ package}} = \mathbf{17.1 \text{ packages}}$

Total Cost: $17(13) = \$221$

Buns

Buns: 404.6

Buns (Dozen): $\frac{404.6 \text{ buns}}{12 \text{ buns}} = 33.7$ dozen or 34 dozen

Buns per Package: one dozen

Buns Unusable:

$24x = 404.6$

$x = 16.08$ or 16 are unusable. $16 + 404 = 420$. $\frac{420 \text{ patties}}{12} = 35$ packages

Total: 35(2 price per package)= \$70

Lettuce

Total Slices of Lettuce: 404.6

1 Head of lettuce= 25 slices

$\frac{404.6 \text{ slices}}{25 \text{ perhead}} = 16$ heads

Total Cost: 16(2\$ price per head)= 66 \$'

Tomatoes

Total Slices of Tomatoes: 404.6

1 Tomato= 11 slices

$\frac{404.6 \text{ slices}}{11 \text{ slices}} = 36.7$ or 37 tomatoes

Total Cost= 37(.50)= \$18.5

Cheese:

Total Slices of Cheese: $404.6(2)$ because two slices of cheese, 809.2

5 pounds = 145

$\frac{809.2 \text{ slices}}{145 \text{ perpackage}} = 5.58$ blocks of cheese or 6 blocks of cheese

Total Cost: 6(25)= \$150

Pickles

Total Pickles: 809.2

Pickels per Jar: $16(17) = 272$

$\frac{809.2 \text{ pickles}}{272 \text{ perjar}} = 2.9$ jars of pickles or 3 jars

Total= 3(4)= \$12

Bacon

Total Slices: 404.6(3) because there is three slices of bacon 1,213.8 or 1214

Bacon per package: 19

HAMBURGER

Total Number of Everything Patty, Lettuce, Bun, and Tomatoes

24.03% of 1201 = 240(1.4 number of patties eaten)= 336

HB

1 Bun

1 patty

1 Tomato

1 Lettuce

2 pickles

Patty's

Patties: 240(1.4 number of patties eaten) = 336

Patties (Dozen):

$$\frac{336 \text{ number of patties}}{12}$$

Number of packages: $\frac{28 \text{ dozen}}{2 \text{ dozen}}$ because there is two dozen in a package. **7 packages**

Patties per package: two dozen

Patties Unusable:

$$\left(\frac{1.3}{48 \text{ patties}} \right) = \left(\frac{x}{336 \text{ patties}} \right)$$

$$48x = 436.8$$

x= 9.1 or 10 patties are unusable

So out of 336 patties 10 are bad. So I need $\frac{346 \text{ total patties}}{24 \text{ package}} = \mathbf{14.4 \text{ packages}}$

Total Cost: 15(13) = \$195

Buns

Buns: 336

Buns (Dozen): $\frac{336buns}{12buns} = 28$ dozen or 28 packages

Buns per Package: one dozen

Buns Unusable:

$$\left(\frac{1badbun}{24goodbuns} = \frac{x}{336buns} \right)$$

$$24x = 336$$

$$x = 14 \text{ are unusable. } 14 + 336 = 350. \frac{350patties}{12} = 29.1 \text{ or 30 packages}$$

Total: 2(30)= \$60

Lettuce

Total Slices of Lettuce: 336

1 Head of lettuce= 25 slices

$$\frac{336slices}{25perhead} = 13.4 \text{ or 14 heads}$$

Total Cost: 14(2)= \$66

Tomatoes

Total Slices of Tomatoes: 336

1 Tomato= 11 slices

$$\frac{336slices}{11slices} = 30.5 \text{ or 31 tomatoes}$$

Total Cost= 31(.50)=\$15.50

Pickles

Total Pickles: 672

Pickels per Jar: 16(17)= 272

$$\frac{672pickles}{272perjar} = 2.5 \text{ jars of pickles or 3 jars}$$

Total= 3(4)= \$12

CHEESEBURGER

Total Number of Everything Patty, Lettuce, Bun, and Tomatoes
40% of 1201 = 480.4(1.4 number of patties eaten)= 673

CB

1 Bun
1 patty
1 Tomato
1 Lettuce
2 Slices Cheese
2 Pickles

Bu + Pa + T + L + 2Pi + 2Ch=BuPaTIPi2Ch2

Patties

Patties: 673(1.4 number of patties eaten) = 480.7

Patties (Dozen): 28.04

$$\frac{480.7 \text{ number of patties}}{12} = 28.04 \text{ or } 28$$

Number of packages: $\frac{46 \text{ dozen}}{2 \text{ dozen}}$ because there is two dozen in a package. **28 packages**

Patties per package: two dozen

Patties Unusable:

$$\left(\frac{1.4}{48 \text{ patties}} \right) = \left(\frac{x}{480.7 \text{ patties}} \right)$$

$$48x = 673$$

x= 6 patties are unusable

So out of 673 patties 6 are bad. So I need $\frac{673 \text{ total patties}}{24 \text{ package}} = \mathbf{28.04 \text{ packages}}$

Total Cost: 28(13) = \$364

Buns

Buns: 673

Buns (Dozen): $\frac{673buns}{12buns} = 56.1$ dozen or 56 packages

Buns per Package: one dozen

Buns Unusable:

$$\left(\frac{1badbun}{24goodbuns} = \frac{x}{673buns} \right)$$

$$24x=673$$

$$x = 14 \text{ are unusable. } 14+673=687. \frac{673patties}{12} = 56 \text{ packages}$$

Total: 2(56)= \$112

Lettuce

Total Slices of Lettuce: 404.6

1 Head of lettuce= 25 slices

$$\frac{673slices}{25perhead} = 27 \text{ heads}$$

Total Cost: 27(2\$)= 54 \$

Tomatoes

Total Slices of Tomatoes: 673

1 Tomato= 12 slices

$$\frac{673slices}{12slices} = 56.083333 \text{ or } 56 \text{ tomatoes}$$

Total Cost= 56(.50)=\$336.5

Cheese:

Total Slices of Cheese: 673(2) because two slices of cheese, 1346

5 pounds = 145 slices

$$\frac{12114slices}{145perpackage} = 9.28 \text{ blocks of cheese or } 9 \text{ blocks of cheese}$$

Total Cost: 9(25)= \$225

Pickles

Total Pickles: 1346

Pickels per Jar: 16

$$\frac{1346pickles}{16perjar} = 84.25 \text{ jars of pickles or } 84 \text{ jars}$$

Total= 84(4)= \$336